



## SEQUENCE LISTING

<110> YAROVINSKY, TIMUR

<120> TOPOISOMERASE ACTIVATED OLIGONUCLEOTIDE ADAPTORS AND  
USES THEREFOR

<130> UIA-031.01

<140> 09/871,607

<141> 2001-05-31

<150> 60/208,662

<151> 2000-05-31

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 1

taatagcact cactataggg acccttggtg cacca

35

<210> 2

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 2

agggtcccta t

11

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 3

gaagcacatg tctttaatgt c

21

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<210> 4  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 4  
 gaactaacat taatacacat cac 23

<210> 5  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Primer

<400> 5  
 gtaccacctc accagtgtct 20

<210> 6  
 <211> 19  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Primer

<400> 6  
 aaatgatggc cagagacca 19

<210> 7  
 <211> 945  
 <212> DNA  
 <213> Vaccinia virus

<400> 7  
 atgCGTgcac tttttttataa agatggtaaa ctctttaccg ataataatTT tttaaatcct 60  
 gtatcagacg ataatccagc gtatgaggTT ttgcaacatg ttaaaattcc tactcattta 120  
 acagatgtag tagtatatga acaaacgtgg gaggagggcgt taactagatt aatttttTgtg 180  
 ggaagtgatt caaaaggacg tagacaatac ttttacggaa aaatgcatgt acagaatcgc 240  
 aacgctaata gagatcgtat ttttgTtaga gtatataacg ttatgaaacg aattaattgt 300  
 tttataaaca aaaatataaa gaaatcgtcc acagattcca attatcagtt ggcggTTTTT 360  
 atgttaatgg aaactatgTT ttttattaga tttggtaaaa tgaaatatct taaggagaat 420  
 gaaacagtag ggttattaac actaaaaaat aaacacatag aaataagtcc cgatgaaata 480  
 gttatcaagt ttgtaggaaa ggacaaagtt tcacatgaat ttgttTgtca taagtctaata 540  
 agactatata agccgctatt gaaactgacg gatgattcta gtcccgaaga atttctgttc 600  
 aacaaactaa gtgaacgaaa ggtatatgaa tgtatcaaac agtttggtat tagaatcaag 660  
 gatctccgaa cgtatggagt caattatacG tttttatata atttttggac aaatgtaaag 720  
 tccatatctc ctcttccatc accaaaaaag ttaatagcgt taactatcaa acaaactgct 780  
 gaagtggtag gtcatactcc atcaatttca aaaagagcTT atatggcaac gactatttta 840  
 gaaatggtaa aggataaaaa ttttttagat gtagtatcta aaactacgtt cgatgaattc 900

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ctatctatag tcgtagatca cgtaaataca tctacggatg gatga

945

&lt;210&gt; 8

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Vaccinia virus

&lt;400&gt; 8

Met	Arg	Ala	Leu	Phe	Tyr	Lys	Asp	Gly	Lys	Leu	Phe	Thr	Asp	Asn	Asn
1				5					10					15	

Phe	Leu	Asn	Pro	Val	Ser	Asp	Asp	Asn	Pro	Ala	Tyr	Glu	Val	Leu	Gln
		20					25						30		

His	Val	Lys	Ile	Pro	Thr	His	Leu	Thr	Asp	Val	Val	Val	Tyr	Glu	Gln
	35					40					45				

Thr	Trp	Glu	Glu	Ala	Leu	Thr	Arg	Leu	Ile	Phe	Val	Gly	Ser	Asp	Ser
	50					55					60				

Lys	Gly	Arg	Arg	Gln	Tyr	Phe	Tyr	Gly	Lys	Met	His	Val	Gln	Asn	Arg
65				70					75					80	

Asn	Ala	Lys	Arg	Asp	Arg	Ile	Phe	Val	Arg	Val	Tyr	Asn	Val	Met	Lys
			85						90					95	

Arg	Ile	Asn	Cys	Phe	Ile	Asn	Lys	Asn	Ile	Lys	Lys	Ser	Ser	Thr	Asp
		100					105						110		

Ser	Asn	Tyr	Gln	Leu	Ala	Val	Phe	Met	Leu	Met	Glu	Thr	Met	Phe	Phe
	115						120					125			

Ile	Arg	Phe	Gly	Lys	Met	Lys	Tyr	Leu	Lys	Glu	Asn	Glu	Thr	Val	Gly
	130					135					140				

Leu	Leu	Thr	Leu	Lys	Asn	Lys	His	Ile	Glu	Ile	Ser	Pro	Asp	Glu	Ile
145				150						155					160

Val	Ile	Lys	Phe	Val	Gly	Lys	Asp	Lys	Val	Ser	His	Glu	Phe	Val	Val
			165					170					175		

His	Lys	Ser	Asn	Arg	Leu	Tyr	Lys	Pro	Leu	Leu	Lys	Leu	Thr	Asp	Asp
		180					185						190		

Ser	Ser	Pro	Glu	Glu	Phe	Leu	Phe	Asn	Lys	Leu	Ser	Glu	Arg	Lys	Val
		195					200					205			

Tyr	Glu	Cys	Ile	Lys	Gln	Phe	Gly	Ile	Arg	Ile	Lys	Asp	Leu	Arg	Thr
	210					215					220				

Tyr	Gly	Val	Asn	Tyr	Thr	Phe	Leu	Tyr	Asn	Phe	Trp	Thr	Asn	Val	Lys
225					230					235					240

Ser	Ile	Ser	Pro	Leu	Pro	Ser	Pro	Lys	Lys	Leu	Ile	Ala	Leu	Thr	Ile
				245					250						255

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Lys Gln Thr Ala Glu Val Val Gly His Thr Pro Ser Ile Ser Lys Arg  
 260 265 270

Ala Tyr Met Ala Thr Thr Ile Leu Glu Met Val Lys Asp Lys Asn Phe  
 275 280 285

Leu Asp Val Val Ser Lys Thr Thr Phe Asp Glu Phe Leu Ser Ile Val  
 290 295 300

Val Asp His Val Lys Ser Ser Thr Asp Gly  
 305 310

<210> 9  
 <211> 17  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: T7 phage  
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<400> 9  
 taatacgact cactata

17

<210> 10  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: T3 phage  
 promoter

<400> 10  
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24

<210> 11  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: SP6 phage  
 promoter

<400> 11  
 atttaggtga cactatagaa tac

23

<210> 12  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence

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&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

&lt;400&gt; 12

taatacgact cactataggg acccttggtg caccaagggt ccctat

46

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